

In the Claims:

- Claim 3. (Amended) A portable device according to claim 1, wherein said monitor comprises one or more sensors for sensing the airflow profile associated with the breath cycle.
- Claim 4. (Amended) A portable device according to claim 1, wherein said monitor comprises one or more sensors for sensing the temperature profile associated with the breath cycle.
- Claim 5. (Amended) A portable device according to claim 1, wherein said monitor comprises one or more sensors for sensing the moisture profile associated with the breath cycle.
- Claim 6 (Amended) A portable device according to claim 1, wherein said monitor comprises one or more sensors for sensing the oxygen or carbon dioxide profile associated with the breath cycle.
- Claim 7 (Amended) A portable device according to claim 1, wherein the trigger point corresponds to the point at which the lungs of the patient are most empty.
- Claim 8. (Amended) A portable device according to claim 1, wherein said monitor is connectable to an electronic information processor.
- Claim 12. (Amended) A portable device according to claim 9, wherein said electronic information processor includes a second predictive algorithm for predicting the optimum amount of medicament to release.
- Claim 13. (Amended) A portable device according to claim 9, wherein said electronic information processor includes a second look-up table for predicting the optimum amount of medicament to release.
- Claim 14. (Amended) A portable device according to claim 12, wherein said electronic information processor includes a dose memory for storing information about earlier delivered



doses and reference is made to the dose memory in predicting the optimum amount of medicament to release.

- Claim 15. (Amended) A portable device according to claim 12, additionally comprising a display for displaying information about the optimum amount of medicament to release.
- Claim 16. (Amended) A portable device according to claim 12, additionally comprising a selector for selecting the amount of medicament to release.

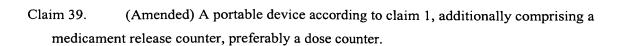
- Claim 19. (Amended) A portable device according to claim 16, wherein the selector comprises a timing mechanism for varying the time interval of actuation of the actuator.
- Claim 20. (Amended) A portable device according to claim 16, wherein the selector comprises a metering mechanism between the container and the release mechanism for metering a variable quantity of medicament for release.
- Claim 21. (Amended) A portable device according to claim 16, wherein the selector comprises a multiple-fire mechanism for multiple actuation of the actuator, wherein each actuation releases a portion of the optimum amount of medicament.
- Claim 22. (Amended) A portable device according to claim 1, wherein said medicament container is an aerosol container and said release mechanism is an aerosol valve.
- Claim 28. (Amended) A portable device according to claim 1, wherein said medicament container is a dry-powder container or a liquid container.

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Claim 29. (Amended) A portable device according to claim 1, wherein said actuator comprises an energy store for storing energy which energy is releasable to activate the release mechanism of the medicament container.

Claim 36. (Amended) A portable device according to claim 1, additionally comprising a safety mechanism to prevent unintended multiple actuations of the actuator.

Claim 38. (Amended) A portable device according to claim 1, additionally comprising an actuation counter.



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- Claim 40. (Amended) A portable device according to claim 1, additionally comprising a manual override.
- Claim 41. (Amended) An inhalation device for the delivery of inhalable medicament comprising a housing and a system according to claim 1.